



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

August 3, 2005

Tennessee Valley Authority
ATTN: Mr. K. W. Singer
Chief Nuclear Officer and
Executive Vice President
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: MEETING SUMMARY - CATEGORY 1 MEETING WITH TENNESSEE VALLEY
AUTHORITY (TVA) RE. BROWNS FERRY UNIT 1 RECOVERY STATUS -
DOCKET NO. 50-259

Dear Mr. Singer:

This refers to the meeting conducted at our mutual request at the Nuclear Regulatory Commission's (NRC) Region II Office in Atlanta, Georgia, on July 20, 2005. The meeting purpose was to discuss the Browns Ferry Unit 1 Restart Project Status. Discussions during this management meeting were lead by both representatives of the TVA and the NRC and included the following topics: accomplished work activities to date, schedules for future milestones, responses to challenges, and understanding activities important to NRC oversight and inspections regarding Unit 1. Enclosure 1 contains a list of NRC, TVA, and other attendees. Enclosure 2 contains the presentation handouts used by your staff and the NRC to discuss the status of the Browns Ferry Unit 1 Restart Project. Enclosure 3 contains the NRC Browns Ferry Unit 1 Recovery Issues List which represents the NRC's current understanding of the issues requiring NRC review prior to restart of Unit. The meeting was informative and a beneficial exchange of information. Although it did not result in specific action items or decisions, both sides gained a better understanding of near term priorities. These periodic meetings will continue throughout the recovery process.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room (PDR) or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

TVA

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Should you have any questions concerning this meeting, please contact me at (404) 562-4520.

Sincerely,

/RA/

Stephen J. Cahill, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Docket No.: 50-259
License No.: DPR-33

Enclosures: 1. List of Attendees
2. TVA Presentation Handout - Browns Ferry Nuclear Plant - Unit 1 Restart
NRC Presentation Handout - NRC Oversight of the Browns Ferry Unit 1
Recovery
3. NRC Browns Ferry Unit 1 Recovery Issues List (July 20, 2005)

cc w/encls: (See page 3)

TVA

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cc w/encls:

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Distribution w/encls: (See page 4)

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Distribution w/encl:

M. Chernoff, NRR

E. Brown, NRR

L. Slack, RII EICS

RIDS RIDS NRR DIP MLIPB

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ADAMS: ☐ Yes ACCESSION NUMBER: _____

OFFICE	DRP:RII	DRS:RII					
SIGNATURE	SJC for	MSL					
NAME	SShaeffer	MLesser					
DATE	08/03/2005	08/02/2005					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: E:\Filenet\ML052160163.wpd

List of Attendees

NRC/TVA Unit 1 Restart Management Meeting

Nuclear Regulatory Commission

Headquarters

W. Kane, Deputy Executive Director for Reactor and Preparedness Programs
W. Borchardt, Deputy Director, Office of Nuclear Reactor Regulation (NRR)
E. Hackett, Director, Project Directorate II (PDII), Office of Licensing and Project Management (DLPM), NRR
M. Marshall, Section Chief, PDII, DLPM, NRR
M. Chernoff, Browns Ferry Unit 1 Project Manager, PDII, DLPM, NRR
E. Brown, Browns Ferry Units 2 and 3 Project Manager, PDII, DLPM, NRR
R. Subaratnam, License Renewal Project Manager, NRR (per telecon)

Region II

W. Travers, Regional Administrator, Region II (RII)
C. Casto, Director, Division of Reactor Projects (DRP), RII
V. McCree, Director, Division of Reactor Safety (DRS), RII
J. Shea, Deputy Director, DRP, RII
H. Christensen, Deputy Director, DRS, RII
S. Cahill, Chief, DRP, Branch 6, RII
M. Lesser, Chief, Maintenance Branch, DRS, RII
C. Julian, Team Lead for License Renewal Inspections, DRS, RII
B. Bearden, Unit 1 Senior Resident Inspector, Browns Ferry, DRP, RII
S. Shaeffer, Senior Project Engineer, DRP, RII,
S. Vias, Senior Reactor Inspector, DRS, RII
L. Lake, Reactor Inspector, DRS, RII
B. Miller, Reactor Inspector, DRS, RII
G. Cameron, Reactor Safety Coop.

Browns Ferry (TVA)

B. O'Grady, Site Vice President
J. Rupert, Unit 1 Vice President
R. Jones, Unit 1 Plant Restart Manager
J. Valente, Unit 1 Engineering Restart Manager
T. McGrath, Senior Project Manager, Operational Readiness
W. Crouch, Site Licensing & Industry Affairs Manager
R. Baron, Unit 1 Nuclear Assurance Manager
E. Hollins, Unit 1 Maintenance & Mods Manager
J. McCarthy, Unit 1 Licensing
E. Riley, TVA Nuclear Fuels
G. Storey, TVA BWR Fuel Engineering Manager
C. Beasley, TVA Communications and Government Relations

Other

B. Lawson, Reporter, The Huntsville Times

NRC REGION II - BROWNS FERRY UNIT 1 RECOVERY ISSUES LIST

Issue Status as of July 20, 2005

Last Quarterly update from Licensee: May 19, 2005
Next BF1 Restart Meeting: July 20, 2005 in Region II

Summary

TVA Special Programs - These are identified in the TVA Regulatory Framework Letter. TVA will provide Special Program issue closures via their quarterly issue update.

27 Open - (30 listed, 3 combined into original 27 programs outlined in Framework Letter, dated 12/13/2002)
0 Closed

TVA has indicated that 5 Special Programs are complete and ready for inspection and closure. These include MELB (6/04), Cable Tray Supports (2/05), Conduit Supports (2/05), Configuration Management (5/05), and Design Calc. Review (5/05). Initial inspections have been performed for most Special Programs.

Near term 2005 closure focus: MELB, Long Term Torus Integrity, Cable Ampacity, Cable Splices, Drywell Platforms, IGSCC, Long Term Torus Integrity, Q list, Thermal Overloads, and PSA.

Generic Communications Open Items - Includes all items from TVA Regulatory Framework correspondence and other NRC reviews to identify issues for Unit 1. These include NRC Generic Letters, Bulletins, MPA, TMI Items, TIs, etc.

54 Open
12 Closed (Items adequately resolved for restart in accordance with NRC Inspection Manual Chapter (MC) 2509.

Open Items (LERs, URIs, and IFIs) - Includes items identified as open for Unit 1 based on historical docket review. This was the primary inspection area for 2004 to date.

6 Open Listed below.
44 Closed Adequately resolved for restart per MC 2509 and closed in a report since BF1 Recovery inspections began in 2003.

Remaining Unit 1 LERs, URIs, and IFIs

URI 87-26-03, RHR Pump Suction and Nozzle Load Allowables - J. Lenahan reviewing 8/11/05 for closure
LER 88-32, Evaluate Cable Separation Criteria, DRS to schedule during Special Program Review 8/1/05 -Fillion/Staples
LER 88-37, Inadequate Design Results for HVAC (Seismic Issue) - Vias assigned to inspect 8/05
LER 88-40, Inadequate Design Control for Backup Control Room - To be reviewed during Unit 1 Safe shutdown Inspection schedule for 10/17-27/05, Fillion.
IFI 93-04-01, Static O-Ring Switches, related Bulletin 86-02 - discussed in 05-06, new design to be implemented - review mod/qualification. SRI to review new Design Change Notice (DCN) to close. Bearden to re-inspect late 05.
URI 05-06-02, Effect of Location Deviations for Pipe Support, Chou to address 8/05

NOTES: An extensive review of inspection reports (IR) back to 1985 was done for all open inspection items against Unit 1. Many of these were resolved but never formally closed on the Unit 1 docket. Most of these items have now been formally closed in a Unit 1 IR and recorded in NRC's RPS tracking program. Open allegations, OI investigations, and emerging/draft issues are not contained in this list. Open Licensing Actions with NRR are maintained on a separate list, but will be added to this list once the Restart Panel is convened..

Sources for all the above issues include: Historical RPS, SIMS, NUREG 1435 (Status of Safety Issues at Licensed Power Plants), SECY 95-264 (final Unit 3 Restart Matrix)

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
#	DESCRIPTION	RESOLVED ON U2-3 (NUREG 1232 VOL. 3 SECTION / PREV. SER)	NRC INSP LEAD/ ALTERNATE	INSP REPORTS (C-CLOSED)	TVA CLOSURE STATUS (Planned)	TRACKED IN TVA RESTART ISSUES LETTER	NRR UNIT 1 COVERED BY PREV U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
1	Cable Ampacity	3.11.3	DRS- C.Smith, Staples	04-07	Open 9/27/06	Yes	NUREG- 1232	No	Installation inspection planned 10/3/05.
2	Cable Installation/Cable Separations Issues	3.11.4, .5	DRS- Fillion, Staples	04-07 04-09	Open 9/27/06	Yes, tracked as 8 sub issues	SER 4/08/92 SER 7/1/94 on bend radius	No	Related closure item LER 88-32. Next inspection Aug 05 (to close separation portion. Ref. 1/28/93 closure letter. U2 closed IR 90-25, U3 closed 95-25.
3	Cable Splices	3.13	DRS-Merriweather, Rodriguiz	04-08	Open 9/27/06	Yes	SER 4/08/92 1/23/91	No	Installation inspection planned 8/05.
4	Cable Tray Supports	2.2.2.7; SE 12/17/91	DRS-Vias, Carrion, Nazario	03-10 04-06	Closed 2/18/05	Yes	SER 12/17/91 11/19/92 3/19/93	No	U3 closed IR 90-22,95-14, 95-20, 95-52.
5	Component and Piece Part Qualification	3.3	DRS-Merriweather. In combination with EQ (11)		Open 6/26/06	Yes	12/07/93 ltr determined could be closed via inspection	No	Inspection 8/22/05 and 9/19/05. U3 closed 95-60.
6	Conduit Supports	2.2.2.3	DRS-Vias, Carrion, Nazario	04-06	Closed 2/18/05	Yes	SER 10/24/89 3/20/92 11/19/92 3/19/93	No	U3 -IR 95-15, 95-57. Inspection planned 12/05.

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7	Configuration Mgmt/ Design Baseline	2.1	DRS-Mellen, SSDPC Team		Closed 5/19/05	Yes	NRC 11/21/91 approval letter on U1 docket	No	Inspection scheduled 8/29 and 9/12, 2005. Utilize SSDPC inspection procedure for review. Discuss system selection with SRI. Related to Item #10.
8	Containment Coatings	3.7	DRS-Lenahan, Maymi	04-07 04-08 05-06	Open 8/14/06	Yes	NUREG 1232 covered U2.	No	Torus closeout insp. 8/30/04 was deferred to and closed in 3/05. Need to schedule drywell and component review. U3 IR 94-01, 94-09, 94-18, 94-27.
9	Control Rod Drive insert/withdrawal piping	2.2.3.2	DRS-Lenahan, Vargas	04-07 04-08.	Open 5/08/06	Yes	NUREG 1232 covered U2.	No	Scheduled 8/05. U3 95-52.
10	Design calc review	2.1	DRS-Mellen, Unit 1 SSDPC type team inspection		Closed 5/19/05	No, TVA tracking as #7, design baseline	NRC 11/21/91 approval letter on U1 docket	No	Inspection scheduled 8/29 and 9/12, 2005. Utilize SSDPC inspection procedure for review. Discuss system selection with SRI. Rescheduled from April 06. Related to Item #7. U2/3 SSDPC performed in Jan 05.
11	Environmental Qualification	3.2	DRS-Merriweather, Mas-Penaranda	03-10 04-08	Open 7/31/06	Yes	NUREG 1232 covered U2	No	Inspection scheduled for 8/22/05 and 9/19/05 U3 closed in IR95-43, 95-56.

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12	Fire Protection/10 CFR 50, Appendix R	3.1	DRS- Fillion, Wiseman, Rodriguiz	04-09	Open 8/7/06	Yes	SER 12/08/88 11/03/89 3/31/93 11/02/95	No	SERs addressed overall approach, no Unit 1 specific exemptions required. First review 04-09, 4 additional DCNs scoped for review. An Appendix R safe shutdown insp. scheduled for 10/17-27/05. Next tri-insp 8/06 for U1,2,3. U3 closed IRs 94-27, 95-04, 95-07, 95-37. Team to include determination if any impact from manual action or hot short generic resolutions.
13	Flexible Conduits	3.12	DRS-Fillion, Staples,Mas- Penaranda	04-07 04-09.	Open 7/31/06	Yes	SER 3/19/93 SER 10/3/95	No	8/1/05 Fillion turnover to Staples. Additional inspections TBD.
14	Fuses	3.11	DRS-Merriweather, Staples, Christnot assist in sampling verification	04-08	Open 9/20/06	Yes	NUREG 1232 covered U2 SER. 4/14/89	No	Program reviewed in 04-08. Next inspection 8/22/05 (installation). U3 closed IRs 93-02, 93-08, 95-02, 95-45. Also review splices (#3).
15	HVAC Duct Supports	2.2.2.4	DRS-Vias, Carrion, Nazario		Open 5/25/06	Yes	NUREG 1232 covered U2 SER. 10/24/89 8/22/90	No	Next 12/05/05. U3 93-201, 95-52. Also address LER/88-37 during 12/05 inspection.

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16	Instrument Sensing Lines	3.4	DRS-Lenahan in-house review of design DRP- SRI perform sample walkdown, focus on key instrumentation lines in high traffic areas.		Open 7/13/06	Yes	SER 12/10/91	No	Early 06 (after installation near completion). U3 closed IRs 94-24, 95-56. Close by inhouse DRS review of Program and DRP final walkdown.
17	Instrument Tubing	2.2.3.4	DRS-Lenahan, Vargas. DRP- SRI perform sample walkdown, focus on key lines in high traffic areas.		Open	Combined with Small Bore Special Program			Close by inhouse DRS review of Program and DRP walkdown. Incorporate field inspection close to restart to look for damaged tubing. Program combined with small bore piping in original regulatory framework letter.
18	Intergranular Stress Corrosion Cracking (IGSCC)	3.6	DRS- Fuller, Vargas	03-09 03-10 04-06 04-07 04-09	Open	Yes	SER 12/21/89 U2 SER 12/03/93 U3 SER 4/25/05	NRR SE to be issued	Program submitted for review 7/21/04. Scope of U1 different than U2 and 3. New precedent for U1. Reviews have included recirc and RBCCW piping, Ref. GL 88-01, GL 94-03. U3 closed IRs 92-31, 93-05. Inspection planned 8/1/05, to include Mechanical Stress Improvement Process (MSIP).

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework ltr from NRR/Marsh)									
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19	Large Bore Piping Supports	2.2.3.1	DRS-Chou, Maymi, Rivera	03-09	Open	Yes, TVA tracks as Bul 79-02 and 79-14, not as a special program	NUREG 1232	No	Inspection planned 11/28/05. A of 6/28/05 Installation approximately 7% complete.
20	Long Term Torus Integrity Program	2.2.4.3; SE 8/20/80	DRS-Chou, Lenahan, Maymi	03-09 03-10 04-11(Esc. Enf) 04-07 04-09.	Open 7/5/06	Yes	SER 5/06/85 2/10/92	No	Inspection planned 7/18/05. Complete in conjunction with large bore pipe. Internal torus complete. Next inspection to review external supports. U3 closed in IRs 94-15,95-03, 95-52.
21	Lower Drywell Platforms and Miscellaneous Steel	2.2.2.5	DRS-Lenahan, Maymi	03-09 04-07	Open 4/20/06	Yes	SER 12/7/93	No	Inspections remain on lower platforms to close. Inspection planned 7/18/05.
22	Misc Steel Frames	2.2.2.6 SE 10/24/89	DRS-Lenahan, Carrion	03-09	Combined	No			Inspection of Drywell steel is complete -TVA to NRC 12/13/02 letter combined Misc Steel Frames into Lower Drywell Platforms and Miscellaneous Steel.

TVA SPECIAL PROGRAMS (Endorsed per 8/14/03 Reg Framework Ltr from NRR/Marsh)									
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23	Moderate Energy Line Break (MELB)	3.8	NRR/DRP/Shaeffer		Complete, closure package available.	Yes	NUREG 1232	Yes NRR issue letter to close.	-TVA to NRC 6/25/04 letter completed TVA actions. NRR provide documentation to support closure. U3 - 95-52 MELB analysis requested from TVA by Shaeffer 5/19/05. RII received closure package 6/4/05.
24	Platform Thermal Growth	2.4	DRS-Lenahan, Carrion, Maymi	03-09	Combined	No			Inspection date TBD. TVA to NRC 12/13/02 letter combined Platform Thermal Growth into Lower Drywell Platforms and Miscellaneous Steel.
25	Probabilistic Safety Assessment (PSA)	3.9	NRR DRS-Bernhard		Complete 2/18/05	No	No SER for any unit (PSA). NRC staff evaluation 9/28/94 for U2 (88-20) 5/20/98, 5/04/99 for U3 (88-20)	Yes Closure Ltr to Licensee from NRR.	Determine what NRR reviews required. TVA to NRC 12/13/02 letter closed PSA with BFN Multi-Unit PSA (April 14, 1995). NRC request Ltr 6/21/04. SRA/NRR to review TVA's 8/17/04 Resp to GL 88-20. Issues caused re-calc to be done May '05 - will make more like U2/3 PSA results. NRR response letter to close. U3 closed IR 95-49.
26	Q List	3.15	DRP-Bearden		Open	Yes			Inspection planned 1/06. Ref GL 83-28.

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27	Restart test program (RTP)	4.6	NRR/DRP		Open	Yes	NUREG 1232 SER 8/30/94	No	System turnover review to be performed for key systems. Reviews to be performed by experienced inspectors familiar with BWR mitigating systems. TVA plans Closure Ltr for 9/12/06. NRR Ltr to TVA 6/15/05 requesting details of Restart Test Program (RTP). U3 closed IRs 95-07, 08, 26, 51, 60.
28	Seismic Class II Over I/Spacial Systems Interactions and Water Spray	2.2.4.2	DRS-Vias, Nazario		Open 7/21/05	Yes	SER 11/19/92	No	Perform in conjunction with HVAC and Electrical Conduit Support. Next inspection 8/05, 12/05. Include DCN 51192, as referenced in IR 04-06, Section E1.3. Close with GL 87-02.
29	Small Bore Piping/Supports	2.2.3.3	DRS-Lenahan, Maymi Alternate - Vias		Open	Yes, combined with #17 Instrument Tubing	SER 10/24/89 2/4/92	No	Inspection TBD. Inspect in conjunction with Instrument Tubing. Final Instrument tubing inspection should be close to restart date to identify damaged tubing post installation. U3 closed IRs 95-03, 95-57 .
30	Thermal Overload	3.11	DRS-Merriweather, Staples	04-08	Open 9/20/06	Yes	NUREG 1232	No	Next inspection 9/19/05. U3 closed in IR 95-25.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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1	BU 79-02	Pipe Support Base Plate Designs Using Concrete Expansion Anchor Bolts	SER 2/8/90	DRS-Chou		Open	Yes		NUREG 1232	Associated with large bore piping reviews. TVA action due Apr 06.
2	BU 79-12	Short Period Scrams At BWR Facilities		DRS-E. Lea		Open	Yes			Inspection planned 2/27/06. U3 item closed in IR 95-51, TVA action due Jun 06.
3	BU 79-14	Seismic Analysis for As-Built Safety Related Piping Systems		DRS-Chou		Open	Yes	SER 10/24/89	NUREG 1232	TVA action due Apr 06. Associated with large bore piping reviews. U3 closed IRs 94-15, 94-29, 95-03, 95-52.
4	BU 80-06	Engineered Safety Feature Reset Controls		DRS-Mas- Penaranda - EB1		Open	Yes	No SER		Inspection scheduled 12/05. U3 item closed in IR 95-22, TVA action due May 05.
5	BU 84-02	Failure of GE Type HFA Relays in Use in Class 1E Safety Systems		DRP	04-09C	Closed 2/18/05	Yes	No SER		U3 item closed in IR 95-43, WOs for Buls 84-02 & 88-03 to be worked Oct 05.
6	BU 86-02	Static "O" Ring Differential Pressure Switches		DRP	05-06C	Closed 5/19/05	Yes	No SER	94-31	U3 item closed in IR 94-31, see also IFI 93-04-01, TVA action due Apr 06.

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7	BU 88-03	Inadequate Latch Engagement in HFA Type Relays Manufactured by GE	SER 8/2/90	NRR/DRP	04-09C	Closed 2/18/05	Yes	No	TVA submittal required upon completion	NRR determined issue is closed for Unit 2-3., WOs for Buls 84-02 & 88-03 to be worked until Oct 05.
8	BU 88-04	Potential Safety Related Pump Loss		DRP/Bearden	04-09C	Closed 2/18/05	Yes	No SER	Yes	TI 2515/105 (orig. did not require BF to do insp.). TVA response submitted 5/04, U1 item addressed in IR 95-31. TVA to NRC 5/7/04 letter completed TVA actions.
9	BU 88-07	Power Oscillation in Boiling Water Reactors		DRS-OLHP-Lea		Complete-package available for closure, delivered to Lea 3/05	Yes	SER 5/31/94		Inspection planned 2/27/06. TI 2515/099, TVA action due May 05 -NRC to TVA 5/31/1994 letter, TVA considers complete with issuance of TS 300
10	BU 88-10	Nonconforming Molded-Case Circuit Breakers		DRP-S. Walker		Open	Yes	No SER. NRC to TVA letter 3/10/92		Inspection planned 12/5/05 and 1/9/06. Reference NRC to TVA letter 3/10/92 closed Bulletin for U1- verify no changes, to parts or installed components. Lic mods 12/05.

GENERIC COMMUNICATIONS: Bulletins {BU} and Generic Letters {GL}										
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11	BU 90-01	Loss of Fill Oil in Rosemount Transmitters		DRS-EB1, Moore/Peabody	Planned 11/05	Open R. Moore has partial package 3/05. Requested more info 7/12 from TVA.	Yes	SER 4/04/95	NRR closeout letter / SE 2/7/05	Inspection planned 11/05. TI 2515/122 - reference only. MC change notice 95-08 deleted TI for BF1. TVA ltr 6/7/04. May also review during License Renewal inspection planned 9/19/05.
12	BU 93-02	Debris Plugging of Emergency Core Cooling Suction Strainers		DRP-Patterson	Inspection complete. To be closed 05-07 pending SER.	Complete 5/19/05 Closure Pkg. Ready	Yes	6/28/93 ltr 7/19/94 ltr	SER pending per NRR	No original SER for U2/3. TVA response 5/6/04. Included final drywell inspection walkdown. U3 closed IR 95-60 .
13	BU 93-03	Resolution of Issues Related to Reactor Vessel Water Level Instrumentation in BWRs	SER 4/20/94	DRP-Patterson		Open	Yes	SER 4/20/94	TVA closure ltr	See BUL 92-04. Use TI 2515/128 reference. Verify installation to close. U3 closed IRs 95-31 and 95-56, 93-201.
14	BU 95-02	Unexpected Clogging of a RHR Pump Strainer While Operating in Suppression Pool Cooling Mode		DRP-Patterson	Inspection complete. To be closed 05-07 pending SER	Complete 5/19/05 Closure Pkg. Ready	Yes	SER 3/14/96	BU 93-02 SER pending per NRR	TVA action due Oct 04. Was to be addressed for Unit 3 around startup. Ref needed.

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15	BU 96-03	Potential Plugging of Emergency Core Cooling Suction Strainers by Debris in Boiling Water Reactors		DRP-Patterson	Inspection complete. To be closed 05- 07 pending SER	Complete 5/19/05 Closure Pkg. Ready	Yes	No SER	BU 93-02 SER pending per NRR	11/15/99 NRC letter completed review for U 2,3.
16	GL 82-33	Instrumentation to Follow the Course of an Accident - R.G. 1.97	SER 2/8/90	DRS-Mellen, Peabody	Inspection completed 7/05. To be closed in IR 05- 07.	Open	Yes	SER 2/8/90 5/10/91 5/3/94	11/19/04 update letter for neutron monitoring	U3 closed IRs 90-32, 93-201, 95-39. TVA closure due Jan 06. Ref.TI 2515/87. NRR reviewing an amendment involving a proposed upgrade to the neutron monitoring system.
17	GL-83-08	Modification of Vacuum Breakers on Mark 1 Containments		DRP-Bearden	05-06C	Closed 5/19/05	Yes		TVA submittal required upon completion	Ref. TI 2515/096, TVA action due Mar 06. 88-19. NRC letter 11/25/86 for all three units.

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18	GL 83-28	Salem ATWS -Item 1.2 Trip Review -Item 4.5.2 Periodic On-Line Testing -Item 4.5.3 Intervals for On-Line Testing		DRP-Patterson		Open	Yes	Multiple SERs 8/17/90 9/2/86 10/27/86 3/23/88 6/1/89 5/1/89 9/2/86 6/12/85 6/17/85		TI 2515/064 & TI 2500/020 A-9, TVA action due Mar 06. Note 2500/20 is a TI requiring inspection. Item 1.2 Trip review remains open.
19	GL 87-02	Verification of Seismic Adequacy of Mechanical and Electrical Equipment In Operating Reactors		DRS-Vias		Open	Yes	SER 3/21/2000	Yes, NRR SE required	TVA action due Mar 06. Related to USI A-46. Status in 04-06, E1.3. Program submittal 10/7/2004. No U2,3 ref Insp. planned 8/05.
20	GL 88-01	NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping	SER 12/3/93	DRS-Fuller		Open	Yes		Yes, NRR SE required	IR 95-44, TVA action due Apr 05. See Special program. Insp. planned 8/05.

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21	GL 88-11	Radiation Embrittlement of Reactor Vessel Materials and its Impact on Plant Operations	SER 6/29/89	NRR/Shaeffer, NRR to review TS 293 to determine U1 impact, any RAI.		Complete	Yes	6/29/89	No	NRR determined issue closed. NRC to TVA 1/8/93 letter regarding PT curve change, TVA considers complete with issuance of TS 293. NRR to confirm.
22	GL 88-14	Instrument Air Supply System Problems Affecting Safety Related Equipment	SER 5/9/89	DRP-Patterson		Open	Yes	5/9/89 ltr	No	IRs 95-38, 95-56, TVA action due Mar 06.
23	GL 88-20 Sup4	Individual Plant Examination of External Events for Severe Accident Vulnerabilities		DRS-Bernhard		Open	Yes	No	Yes	See Special Program - PSA. Initial IPE was U2, then multi-plant was U2/3. TVA letter 1/14/05 indicating complete. SRI to Evaluate U1 operational risk addition.
24	GL 89-06	Safety Parameter Display System	SER 2/5/92	DRS-Lea		Open	Yes April 06	Yes	No	See TMI item 1D.2
25	GL 89-08	Erosion/Corrosion-Induced Pipe Wall Thinning		DRP-Bearden		Open	Yes May 06	8/21/89 ltr		Unit 3 closed IR 95-41. Insp. Planned 1/06.

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26	GL 89-10	Safety-Related Motor-Operated Valve Testing and Surveillance		NRR/ DRP-Shaeffer	Several GL89-10 mods reviewed in 04-09, not closed	Open	Yes May 06	No SER	Closeout via inspection	TI 2515/109 Propose NRR Onsite review/Scarborough.
27	GL 89-13	Service Water System Problems Affecting Safety Related Equipment		DRS-Maymi		Open	Yes	SER 4/23/90	TVA submittal - notification of action completion	TI 2515/118, and TI 2515/159 as ref. TVA action due Mar 06. U3 - 95-23. Insp. Planned 5/15/06. Adequate resources to complete in combination with heat sink?
28	GL 89-16	Installation of a Hardened Wetwell Vent	SER 8/16/91	DRP-Shaeffer	05-06C	Open per 2/18/05 restart Ltr	Yes	SER 8/16/91	No	TI 2515/121, TVA action due Mar 06. U3 95-38, 95-56.
29	GL 92-01	Reactor Vessel Structural Integrity		NRR DRP/Shaeffer		Complete- Package available	Yes	No SER	NRR to issue closure ltr.	-TVA to NRC 5/23/94 letter, TVA will inform NRC of the applicability of NEDO 32205 within 90 days of the final surveillance capsules analysis report. 7/07/99 letter closed for U 2,3. Inspection planned 9/05.

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30	GL 92-04	Resolution of the Issues Related to Reactor Vessel Water Level Instrumentation in BWRs	SER 3/25/93	DRP-Patterson		Complete	Yes	SER 3/25/93	No	IR 93-16, see IEB 93-03, -Long term actions were addressed as part of the resolution of Bulletin 93- 03. TI 2515/119 ref. U2 93-16. NRC 3/25/93 letter found acceptable for all three units - verify.
31	GL 94-02	Long-Term Solutions and Upgrade of Interim Operating Recommendation s for Thermal- Hydraulic Instabilities in BWRs		DRS-E. Lea		Open	Yes	No SER	Yes	U3 - IR 94-11, 95-62. Ref TI 2515/119. Need SER to enable TVA to submit TS change on GE topical.
32	GL 94-03	Intergranular Stress Corrosion Cracking of Core Shrouds in BWRs		DRS-Fuller		Open	Yes	SER 1/13/95	No	U3 - IRs 94-16, 95-44 TVA action due Aug 05 See SP #18.
33	GL 95-07	Pressure Locking and Thermal Binding of Safety- Related and Power-Operated Gate Valves		DRP-Patterson		Open	Yes	SER 6/23/99 HQ Response	No	TVA action due May 06 Lic. Response 5/11/04, 7/29/04. NRC HQ Ltr/SE 1/28/05 closed.

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34	GL 96-01	Testing of Safety-Related Logic Circuits		DRS EB1- C. Smith (S. Walker)		Open	Yes	No SER	No	Inspection planned 12/5/05 and 1/9/06. TVA action due Oct 05. 6/28/99 completion letter for Units 2,3. IR 98-03, 98-05, 98-07, 98-09.
35	GL 96-05	Periodic Verification of Design Basis Capability of Motor Operated Valves		DRP-Moore		Complete - Package requested	Yes	No SER	No, closeout via inspection	TVA considers complete since the industry program has been completed. Insp. planned 11/05.
36	GL 96-06	Assurance of Equipment Operability and Containment Integrity During Design Basis Accident Conditions		DRS-Vias		Open 4/06	Yes	No SER HQ Response	No	NRC ltr 2/15/00 closed for all three units, however stated U1 would be revisited. TVA submitted response 5/12/04. NRR letter 2/7/05 said TVA provided acceptable resolution.
37	GL 97-04	Assurance of Sufficient Net Positive Suction for Emergency Core Cooling and Containment Heat Removal Pumps		DRP-Patterson	Inspection complete. To be closed 05-07 pending SER	Complete-Package available	Yes	BU 93-02 SER pending per NRR	No	6/11/98 Ltr closed for U 2,3. TVA response for U1 5/6/04-TVA considers complete based on Unit 1 EPU application, dtd 6/28/04.

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38	GL 98-01	Readiness of Computer Systems at Nuclear Power Plants		DRP-Shaeffer	05-06C	Complete-Package available	Yes	No SER	No	- NRC to TVA 10/18/99 letter completed.
39	GL 98-04	Potential for Degradation of the Emergency Core Cooling System and the Containment Spray System After a Loss of Coolant Accident Because of Construction and Protective Coating Deficiencies and Foreign Material in Containment		DRS-Lenahan		Complete-Package available	Yes		No	-TVA to NRC 5/11/04 letter provided response NRC 11/24/99 Ltr closed for all TVA sites - verify Close with Special Program for Coatings.

THREE MILE ISLAND ACTION ITEMS										
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40	I.D.1	Control Room Design Review		DRS-Lea		Open 3/28/06	Yes	SER 10/29/91		Available for inspection 12/05.
41	I.D.2	Safety Parameter Display Console		DRS-Lea		Open 7/24/06	Yes	SER 2/05/92		Available for inspection 12/05.
42	II.B.3	Post-Accident Sampling System		DRS-Loo		Open 6/28/06	Yes	SER 5/27/87		Insp. Planned 1/06.
43	II.E.4. 2.1-4	Containment Isolation Dependability - Implement Diverse Isolation, containment purge valves		DRP-Bearden		Open	Yes	SER 1/6/95 10/3/95 6/24/04 ltr		Insp. planned 10/05.
44	II.F.1.2 .C	Accident - Monitoring - Containment High Range Radiation		DRS-Loo		Open 5/9/06	Yes	SER 1/8/82		Insp. Planned 1/06.
45	II.F.1.2 .D	Accident - Monitoring - Containment Pressure		DRP-Bearden	05-06C	Complete- Package available	Yes	SER 6/16/83		-NRC to TVA 11/8/90 letter closed issue.
46	II.F.1.2 .E	Accident - Monitoring - Containment Water Level		DRP-Bearden	05-06C	Complete- Package available	Yes	SER 6/16/83		-NRC to TVA 12/12/83 letter, TS Amendment 92 closed issue.

THREE MILE ISLAND ACTION ITEMS										
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47	II.F.2.4	(Generic Letter 84-23) - Instrumentation for Detection of Inadequate Core Cooling		DRP-Patterson	Inspection complete. To be closed 05-07	Open 7/13/05 Closure Pkg. Ready	Yes	No SER		
48	II.K.3.13	HPCI/RCIC Initiation Levels		DRP-Bearden		Open, 7/17/06 NRC has package	Yes	SER 9/19/83	TVA will notify upon completion	
49	II.K.3.18	ADS Actuation Modifications		DRP-Bearden		Open, 5/21/06 NRC has package	Yes	SER 5/29/90		
50	II.K.3.27	Common reference level for BWR		DRP-Bearden		Open	No	SER 9/19/83		Not on TVA letter, added during Scott's review, see IRs 91-03, 91-10, U3 item closed in IR 95-16, NRR ltr dtd 12/30/82 agreed w/integration into I.D.1 and considered item closed for U1,2,3, TVA action due Oct 05.
51	II.K.3.28	Qualification of ADS Accumulators		DRP-Bearden		Open, 7/5/06 NRC has package	Yes	SER 5/29/90		

	MULTI-PLANT ACTIONS (MPA)									
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52	MPA-B011	Flood of equipment important to safety		DRP-Carrion			No			TI 2515/088 Flooding information available in association with MELB reviews.
53	MPA-B041	Fire protection - Final TS (including SER Sup)		DRS-Fillion			No			TI 2515/062, ref. Rpts 89-13, 90-06, 90-11 Review during App. R 10/05.
54	MPA-C002	BWR recirc pump trip (ATWS)		DRP-Patterson			No			TI 2515/095, ref. Rpts 89-35, 95-60.
55	TI 2500/20	Inspection to determine compliance with ATWS Rule 10 CFR 50.62		DRP- Patterson		Open	Yes			SEE GL 83-28. TVA action due Mar 06.
56	TI 2515/111	EDSFI Followup	Unit 1 Followup for previously performed electrical distribution inspection	DRP-Rudisail			No			To complete early 06, Review selected EDG/Bus loading calcs similar to U3 closure in 95-60. Request calcs in advance.
57	TI 2515/154	Spent fuel Material Control and Accountability		DRP/Bearden	04-08C		No			

	MULTI-PLANT ACTIONS (MPA)									
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58	TI 2515/156	Offsite Power System Readiness		DRP/Bearden	04-08C		No			USI A-44 Station Blackout.
59	TI 2515/157	Mark I and II Containment Operations		DRP/Bearden	04-08C		No			Not applicable to BF1 per Steve Stein.
60	USI A-7	Mark 1 Long- Term Program, NuReg-0661, Supp 1		NRR			No			TI 2515/85 Torus Integrity SP.
61	USI A-9	ATWS		DRP-Patterson			No			TI 2500/020,SEE GL 83- 28, USI A-75.
62	USI A-24	Qualification of Class 1E Safety- Related Equipment		DRS- Merriweather			No			Ref. TI 2515/76. Review with EQ Special Program
63	USI A-26	Reactor Vessel Pressure Transient Protection		NRR			No			TI 2500/019, Determine if DRP inspection required PT curves/see GL 88-11.
64	USI A-44	Station Blackout		DRS-EB1		May 06	No			TVA to implement DC power mods. Previously closed for U3 95-16, 95- 34, 95-60.

	MULTI-PLANT ACTIONS (MPA)									
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65	USI A-46	Verification of Seismic Adequacy of Mechanical and Electrical Equipment In Operating Reactors		DRS-Vias			No			Discussed in IR 04-06, E1.3 Ref. GL 87-02.
66	USI A-75	MPA-B085, Required Actions on Generic Implications of Salem ATWS Events, Section 1.2, Post Trip Review		DRP-Patterson			No			See USI A-9 Closed U3 in 95-60 GL 83-28.

	OTHER MISC ISSUES						
	ISSUE	DESCRIPTION	NRC INSP LEAD/ ALTERNATE	CLOSURE IR	<u>NRR</u> UNIT 1 COVERED BY U2-3 SER or HQ LETTER?	<u>NRR</u> NEW SE or TVA SUBMITTAL REQ?	COMMENTS
A	New simulator qualification/ Fidelity and Operator staffing	Review licensee's new simulator to support 3 unit operations. Review Licensed Operator staffing plans.	DRS-OLHPB - J. Mooreman			No. TVA will submit ltr when testing complete.	New simulator construction complete. Pre-op testing began June 05. RII OLB discussed HQs OLB in May 05. No requirement to inspect; however, propose assess performance during Requal. insp. Review any outstanding fidelity issues. Staffing - As of 7/05, BF has 43 ROs, 48 SROs. Two exams scheduled prior to restart adding 15 RO and 8 SRO (3 are RO upgrades). Initial review indicates this would be adequate for 3 unit operation.
B	Lay up inspections		DRP-Bearden	CLOSED - Final layup inspection done in 2004, IR 04-06			No open concerns or further actions required.

	OTHER MISC ISSUES						
	ISSUE	DESCRIPTION	NRC INSP LEAD/ ALTERNATE	CLOSURE IR	NRR UNIT 1 COVERED BY U2-3 SER or HQ LETTER?	NRR NEW SE or TVA SUBMITTAL REQ?	COMMENTS
C	In-vessel inspections, core spray UT	Full RPV internals and weld inspection done June - August, 2005 for 10 year ISI	DRS - Lesser (Fuller, Crowley, Blake)		N/A	N/A	Inspection scheduled for 8/1/05 for vessel internals. Subsequent inspection to be scheduled for vessel verticle weld (Late Aug/Sept. 05). Additional focus item - In May 2005, licensee det. need to seal weld RHR HX after Unit 2 issues. Look at U2/3 review of mod and ISI implications? DRS inspectors will look at significant portions while DRP/RIs will cover remainder.
D	OSTI/ORAT		DRP - Bearden/ Shaeffer. Restart Panel to determine best fit and scope. Recommend reduced scope ORAT.				OPEN, coordinate time with licensee. Could be performed prior to or during restart.
E	Common Accident Signal		DRP-Bearden			No. Lic amendment submitted 3/05.Amendment approved 4/1/04.	No TVA commitment. During U2 restart, condition discovered which could have prevented automatic initiation of RHR and reported via LER 259/88-12. LER was closed for U2 in 89-95 and closed for U3 in 95-58. Mods I/P U1- DCN51016, U2- DCN 51018 (complete), U3 - DCN 51017 OPEN.
F	Extended Power Uprate		NRR Project Manager			New SE	OPEN

	OTHER MISC ISSUES						
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G	Enhanced Restart Monitoring	Restart Panel to determine duration. Proposed 24 hour coverage.	DRP Coordinate.				Focus on BWR Residents and OL examiners for key observations. Include simulator walkdown for each watchstand.
H	License Renewal Application		NRR Project Manager			New SE	OPEN
I	Update Maintenance Rule	Upon restart, U1 needs to comply with explicit scoping requirements of 50.65(b)	NRR Project Manager/Region II inspection		No	No SE. Letter from TVA to confirm Unit 1 in compliance with 50.65(b).	Unit 1 currently has a temporary exemption from the Maintenance Rule which expires upon restart per NRC 8/9/99 letter. This area to be inspected for Reactor Oversight Process (ROP) transition and confirmation of Unit 1 Maintenance Rule scoping. Next inspection schedule for Jan 2007 to include all three units.
J	License Amendment 234 Review	Improved Standard Technical Specifications	NRR Project Manager			Yes	NRC to confirm License condition ITS. TVA to review TS changes made by License Amendment 234 and any other subsequent TS changes prior to entering Mode that TS applies.
K	Turbine Building (TB) Dynamic Seismic Analysis	Confirm seismic demand accelerations for TB	NRR Project Manager			NRR to review.	License condition. NRC to confirm conclusions in TVA letter dated 9/17/04 for turbine building seismic loading.

LIST OF ACRONYMS USED

C	Closed
CA	Corrective Action
CFR	Code of Federal Regulations
EDG	Emergency Diesel Generator
EOC	Extent of Condition Review
EOP	Emergency Operating Procedure
FSAR	Final Safety Analysis Report
GL	NRC Generic Letter
IFI	NRC Inspector Followup Item
IFS	Inspector Followup System
ILRT	Integrated Leak Rate Test (of the Reactor Building)
IR	NRC Inspection Report
LER	Licensee Event Report
MPA	NRC Multi-Plant Action
NRR	Office of Nuclear Reactor Regulation
OIL	Open Item List
OP	Operating Procedure
PM	NRR Project Manager
PER	Problem Evaluation Report
QA	Quality Assurance
RB	Reactor Building
RG	Regulatory Guide
RI	Resident Inspector
SER	Safety Evaluation Report
SFP	Spent Fuel Pool
SIMS	Safety Issues Management System
TIA	NRC Task Interface Agreement (between NRC offices)
TS	Technical Specifications
UHS	Ultimate Heat Sink
URI	NRC Unresolved Item
VIO	NRC Violation